Crossflatts

PRIMARY SCHOOL

OUR COMPUTING CURRICULUM

The Crossflatts Computing Curriculum

OUR INTENT – THE WHY

Developing computing and technology skills which enable pupils to become active participants in a digital world.

The Thrill…

Crossflatts Primary School recognises that that computers are essential to our children's lives both at home and here at school with us. Being able to think and work with computers will play an integral role in the children's development as they grow through our school and head into later education, and eventually, the workplace. Crossflatts Primary School seeks to equip the children, staff, governors and parents with the skills and knowledge they need to learn and use technologies safely and responsibly. All pupils at Crossflatts Primary School are entitled to be taught the key knowledge and skills in the computing disciplines to develop understanding of the world around them at an age-appropriate level and in line with the National Curriculum. We aim to deliver a computing curriculum which focuses on five main strands: E-Safeguarding, Computer Science, Media, Data Handling and Information Literacy. Computing at Crossflatts has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems.

The Will…

Crossflatts Primary School follows the National Curriculum Computing Programmes of Study. We use the Bradford Computing Curriculum which has been written to reflect the three aspects of the programmes of study. The curriculum is split into three main strands: Digital Literacy, Computer Science and Applying Technology. E-Safeguarding is included within all of these areas.

Information Literacy
This strand covers the ability to safely, responsibly and critically navigate, evaluate and create information using a range of digital technologies.

Computer Science
This strand covers the principles of information and computation, how digital systems work and how they are applied to the real world through many means including coding and programming.

Media
This strand aims to share with children an ability to use our computers in different ways to share differing media, from videos to cartoons. The children will be made aware of the variety of uses that technology has.

Data handling
This strand covers the idea of being able to use our computers to help gather, share and interpret data that we come across in the world that surrounds us.

E-Safeguarding
E-Safeguarding can be linked to all areas of the Computing Curriculum but has direct links with the objectives taught within Digital Literacy.

The Skill…

At Crossflatts, we teach a curriculum that enables children to become effective users of technology who can:

- Understand and apply the essential principles and concepts of Computer Science, including logic, algorithms and data representation;
- Analyse problems in computational term, and have repeated practical experience of writing computer programs in order to solve such problems;
- Evaluate and apply information technology analytically to solve problems;
- Communicate ideas well by utilising appliances and devices throughout all areas of the curriculum.

To ensure that we cover the objectives set out by the national curriculum, the Crossflatts' Computing Curriculum and **https://www.ticbradford.com** can be used to support teachers planning and assessment of computing within each year group.

E-Safety

The school strives to use technology effectively and creatively to engage learners across all areas of the curriculum. The school recognises that with the increased use of technology children are becoming more exposed to a variety of E-Safety risks. Thinking with technology is something that will be taught progressively through Crossflatts Primary School to allow our children to grow and change with the ever- developing digital world. The school endeavours for all our children to leave our school 'Digitally literate' in order to enable their progression into this 'digital world' smoothly and with ease.

Through our Computing and E-Safety Curriculums, we aim to build pupils' awareness to the risks which they may be exposed, so that they have the confidence and understanding to seek advice and to deal with any risks in an appropriate manner.

Crossflatts Primary School takes E- safety extremely seriously. We have an E- Safety Policy that provides guidance for teachers, children, governors and parents about how to use the internet safely. Every year group participates in lessons on e-safety and children understand how to stay safe when using technology and staff, parents, governors and children annually are requested to complete acceptable use policies. Additionally, in KS2, all children participate in bi-annual visits from West Yorkshire Police covering the issues of cyber-awareness and cyber-bullying.

…To be Brill

Computing, when taught well, prepares children for life in the present and the future. By providing our children with skills of reading, writing and analysing code, knowledge of a range of software and technology, knowledge of computation systems and logical thinking we are preparing them for future employment and life as a whole. The subject has a huge academic value in developing pupil's knowledge of the world around them, especially when linked to different areas of the curriculum successfully.

Through our Computing and E-Safety Curriculums, we aim to build pupils' awareness to the risks which they may be exposed, so that they have the confidence and understanding to seek advice and to deal with any risks in an appropriate manner and can enjoy the benefits that technology can provide us with safely, successfully and skilfully.